APPENDIX D

SUMMARY OF STANDARDS REQUIREMENTS, DEFECTS, AND RESTRICTIONS

D-l.

Table D-l of this appendix presents a summary of these standards requirements, defects, and operating restrictions.

Table D-1. Summary of Standards Requirements, Defects, and Restrictions

I	E	ull Compliance				Paragraph
	Designated Value (New or Fully	Defective		Restricted Operations	No Operation	Kejerence in Standards
liem	Restored)	(No Restriction Required)	ndm M		+	3.1. 7.1.
Roadway	1	Fumping track Erosion*				
		Slides or slippage Slope Instability*				
		Selliement* Washouts*				ć
Drainage	1	Water diverted onto track*	ł	1	1	J-7.
i		Hazardous drainage structures Inadequate drainage structures				
		Obstruction of flow	Interferen with track	Interferes with track	ŧ	3-3.b.
Vegetation	ı		inspection	inspection		,, ,,
Ballast	i	Fouled bailast Covers top of ties*	ŀ	I		. .
Ties - Consecutive defective	0	1 to 2	m .	4	or more	5-3-3- 6-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-3-
Joint ties	i	I	All joint nes defective	I		
Missing/skewed	ï	G model of the second	Spacing exceeds 48"	1 1	1 1	7-3.€ 9-1.€
Tie plates	ı	improper type, oroxen, manife cut, or defective				÷ 4
Spikes	1	Improper type, broken, flame cut,	i	1	1	į
		Insufficient number*	ſ	1	i i	6-3.a.
		improper installation Improper spiking pattern	íí	1	ı	6-3.6.
		Through stots in angle bar	ţţ	1 1	ı	6-3.d.
		Spike beneath rail base	ı	1	ı	7. 4. 2. 6.
Joints bars	ı	Improper type, flame cut, or defective*	ſ	1		i S
Compromise joints	ì	Improper design, or dimension,	î	ι	ŧ	Į.
Joint bars-cracked or broken	١	or home-made 	One bar cracked or broken between	Both bars cracked between center holes	Both bars broken, worn/	64.c.
			center holes		allow vertical	
					one rail with	
					other Att botts in	Ž
Bolts-loose or missing	None loose ar missing	1	only one bolt in	Ĭ	one rail are	<u>:</u> •
	Ç	1	each rait GT 3/16"(0.1875")	1	GT 1/4"(0.25")	1
Rail end mismatch Rail joint gap	ɔ :	: 1	GT 1.00"	;	GT 2.00°	Ž <u>-</u>
Rail - defective			Sec Table 7-1 in Chapter 7			: (
Turnouts - General	t	Improper materials	1 :	1 1	[]	8-2.b.
	1 1	Kail not same weight and section Compromise joint within turnout	. 1	ı	1	8-2.b.
Switch point gap	0	1	1/8" (0.125)	I	1/4"(0.25")	9.3.5 4.5.5
Broken/worn points	1	ı	(0.50°) down and	I		
Point rail elevation	1	1)	Point higher than	Point rail	8-3.d.
				Stock (dil	lower than	
Lever latches or point locks	;	1	Missing, damaged,	1	1	8-J.c.
			inoperative		-	
Switch stand	ı	1	i	1	movement of under traffic	
					or visible point gap due	
					to stand movement	į
Connecting rod, Switch rods, or Switch clips	ì	ţ	Washers or spacers between clip and	1	Insecurely fastened or	enin H
Switch bear	١	·	point rait	Heel bolts loose or	1	8-3.i.
				missing, heel not fully secure		
Rail Braces	ţ	:	•	Less than 4 fully secured, tight braces	1	8-3 _{.j} .
1		177.00 503	ŧ	on each stock rail	1	86 4.
Frog surface wear	• •	3/8"(0.375)	!	1	ì	8.4.8 5.0
Turnouts - Self-guarded frog guarding	0	3/8"(0.375)	1	ı		8-4.c.
race wear Frog flangeway width	1-7/8"(1.875")	LT 1-3/4"(1.75")	LT 1-5/8"(1.625")	!	LT 1-1/2" (1.50")	8.4.6.
Frog flangeway depth	GE 1-7/8"(1.875")	:	LT 1-1/2"(1.50°)	ţ	LT 1-3/8*	8.4.8 8.
Guard check gage	54-5/8"(54.625")	į	LT 54-1/4"(54.25")	1	LT 54-1/8" (54-125")	8.5.c.
Guard face gage	52-3/4"(52.75")	ı	GT 53-1/8"(53.125")	1	GT 53-1/4"	8-5.d.
Guard rail flanceway width		ET (-3/4"(1.75")	LT 1-5/8"(1.625")	;	(55.25.) LT 1-1/2*	8-5.e.
Pail crossine flanceway width		LT (-3,4"(1.75")	LT 1-5/8"(1.625")	;	(1.38°) LT 1-1/2"	9.2.b.
Roil crossing flanceway depth	_	į	LT 1/2"(1.50")		LT 1-3/8"	9-2.6.
Nati Closed Hangerry Lepton		1 T 2 D*	LT 1-3/4*(1,75°)	ı	(1.375°) LT 1-1/2"	10-2.а.
Kozo crossing tlangeway	2:1/2 103:0	0.3 1.3 (5.4 F.)	1 T 1-1/2*(1 50°)	Į	(1.50°) LT 1-3/8°	10-2.b.
Road crossing flangeway	GE 2.00	L) 1-7/8 (1.6/3.)	CT 57 1177(57 505)	CT 157.44.6.75	(1.375°) UT 560° or	12-2-d.
Gage	56-1/2"(36.30")	:	OT 112 (2020)	Carron Francis ID	GT 58.0°	12.30
Crosslevel - tangent track Crosslevel - curved track	Designated	: 1	GT 1-1/2"(1.50°)	GT 2-1/2"(2.50°)	GE 3.00"	12-3.c
Warp	0	I	OT 1-3/4"(1.75")	GT 2-1/2"(2.50") GT 4.00"	GE 3.00" GE 5.00"	12-5.c. 12-6.e.
Alinement - tangent track Alinement - curved track	Degree of	1 1	GT 2.00"	GT 4.80"	GE 5.00"	12-6.e.
Profile	CUIVALUIC	I	GT 2-1/2"(2.50")	GT 2-3/4"(2.75")	GE 3.00°	12.7.b.
						1

NOTES: GT = Greater Than

NOTES: GT = Greater Than or Equal To

GE = Greater Than or Equal To

Operating restriction may be needed depending on the seriousness of the condition.